Hercules Encoders Series 500

Hall Effect Incremental Rotary Shaft Encoders

- Enclosure: Low profile 3" L x 1.25" W x 2"
- NEMA 12/13 Dust-, Oil-tight
- Inherent Anti-Jitter Circuitry prevents false outputs due to machine vibration
- Low Supply Current Requirement 15 milliamps typical per encoder, at 24Vdc
- Ideally suited for low PPR needs in dirty environments, wide temperature ranges



Specifications

Mechanical

Shaft Speed 4000 RPM maximum Shaft Direction Bidirectional Standard Shaft Sizes (Dia.) .2497", .3125" 1.17" with .50x.05" flat Shaft Extension(s) Mounting Refer to dimensional drawings Bearings ABEC 7 Shielded Radial Loading 15 lbs. Operating **Axial Loading** 7 lbs. Operating ±1.0° of Shaft Rotation Typical Accuracy Black Anodized Aluminum Housing 7 oz. Weight Connector (Side) Wire Out (Strip/Tin or Mate-n-Lok)

Electrical

Pulse Rate 10 kHz Outputs NPN w/ pullup; NPN open collector; PNP sourcing **Output Rating Open Collector Transistor** 40 Vdc maximum Supply Voltage 8 to 28 Vdc 5 Vdc with 5V TTL output Supply Current 15 mA maximum **Current Sinking** 250 mA maximum Output Duty Cycle $50/50 \text{ w}/\pm20\%$ typical tolerance Rise/Fall Times

1 µsec typical

Environmental

 -20° to $+70^{\circ}$ C $(-4^{\circ}$ to $+158^{\circ}$ F) Operating Temp. Shock 20 g's for 11 Milliseconds Vibration 5 to 1000 Hertz at 10 g's Enclosures NEMA 12/13 equiv. — Dust-, Oil-Tight

Electrical Connections

Function

Supply Voltage (-) A Supply Voltage (+) В Channel "A" D Channel "B" E Cable Shield S

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For the latest specifications visit our website www.herculesencoders.com

Dimensional Drawings





